

WHAT IS CLAIMED IS:

1. A multi-function control key structure comprising:

a springy keybody, said springy key body comprising a flat annular base, an annular flange protruded from one side of said flat annular base, a
5 center through hole surrounded by said annular flange, and a springy plate disposed in said center through hole, said springy plate comprising a center through hole and a plurality of first spring arms and second spring arms equiangularly arranged around the center through hole of said springy plate, said first spring arms being respectively connected to said flat annular base,
10 each said first spring arm having a middle mounting hole, each said second spring arm having a free end terminating in a downwardly extended triggering rod; and

a key cap mounted in the center through hole in the annular flange of said springy body, said key cap comprising a bottom wall, a shank
15 perpendicularly downwardly extended from the center of said bottom wall and inserted into the center through hole of said springy plate, a plurality of driving rods perpendicularly downwardly extended from said bottom wall and equiangularly arranged around said shank corresponding to the triggering rods of said second spring arms, and a plurality of locating rods
20 perpendicularly downwardly extended from said bottom wall and equiangularly arranged around said shank and respectively fastened to the mounting holes of said first spring arms to cause said driving rods respectively spaced from the triggering rods of said second spring arms at a predetermined distance.

2. The multi-function control key structure as claimed in claim 1,
wherein said springy key body and said key cap are installed in a through
hole extended from a outer surface to a inner surface of a face panel in such
a manner that the annular flange of said springy key body is inserted into the
5 through hole of said face panel, the flat annular base of said springy key
body is affixed to the inner surface of said face panel, and the shank of said
key cap and the triggering rods of said springy key body are respectively
aimed at respective key switches of a circuit board.

3. The multi-function control key structure as claimed in claim 2,
10 wherein the flat annular base of said springy key body is bonded to the inner
surface of said face panel by heat welding.

4. The multi-function control key structure as claimed in claim 1,
wherein the locating rods of said key cap are respectively bonded to the
mounting holes of said first spring arms by heat welding.

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